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7. The method of Claim 1 wherein the antineoplastic agent is Cell Pathways CP-461.

8. The method of Claim 1 wherein the antineoplastic agent is docetaxel.

5 9. The method of Claim 1 wherein the antineoplastic agent is doxorubicin.

10. The method of Claim 1 wherein the antineoplastic agent is etoposide.

10 11. The method of Claim 1 wherein the antineoplastic agent is fluoxymestrine.

12. The method of Claim 1 wherein the antineoplastic agent is gemcitabine.

13. The method of Claim 1 wherein the antineoplastic agent is goserelin.

15 14. The method of Claim 1 wherein the antineoplastic agent is irinotecan.

15. The method of Claim 1 wherein the antineoplastic agent is ketoconazole.

20 16. The method of Claim 1 wherein the antineoplastic agent is letrozol.

17. The method of Claim 1 wherein the antineoplastic agent is leucovorin.

18. The method of Claim 1 wherein the antineoplastic agent is levamisole.

25 19. The method of Claim 1 wherein the antineoplastic agent is megestrol.

20. The method of Claim 1 wherein the antineoplastic agent is mitoxantrone.

30 21. The method of Claim 1 wherein the antineoplastic agent is paclitaxel.

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22. The method of Claim 1 wherein the antineoplastic agent is raloxifene.

23. The method of Claim 1 wherein the antineoplastic agent is retinoic acid.

5 24. The method of Claim 1 wherein the antineoplastic agent is tamoxifen.

25. The method of Claim 1 wherein the antineoplastic agent is thiotepa.

26. The method of Claim 1 wherein the
10 antineoplastic agent is topotecan.

27. The method of Claim 1 wherein the antineoplastic agent is toremifene.

28. The method of Claim 1 wherein the antineoplastic agent is vinorelbine.

15 29. The method of Claim 1 wherein the antineoplastic agent is vinblastine.

30. The method of Claim 1 wherein the antineoplastic agent is vincristine.

31. The method of Claim 1 wherein the
20 antineoplastic agent is selenium (selenomethionine).

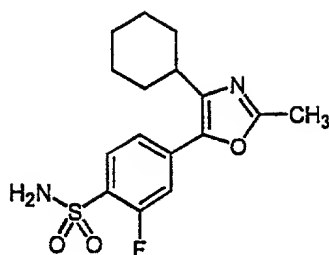
32. The method of Claim 1 wherein the antineoplastic agent is sulindac sulfone.

33. The method of Claim 1 wherein the antineoplastic agent is eflornithine (DFMO).

25 34. The method of Claim 1 wherein the cyclooxygenase-2 inhibitor is selected from compounds, and their pharmaceutically acceptable salts thereof, of the group consisting of:

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1)



JTE-522, 4-(4-cyclohexyl-2-methyloxazol-5-yl)-
2-fluorobenzenesulfonamide,

5

2)

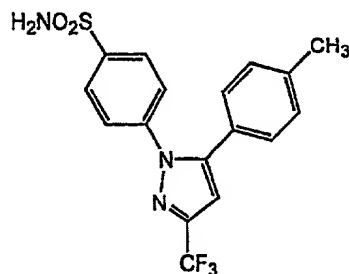
5-chloro-3-(4-(methylsulfonyl)phenyl)-2-
(methyl-5-pyridinyl)pyridine,

3)

2-(3,5-difluorophenyl)-3-4-
(methylsulfonyl)phenyl)-2-cyclopenten-1-one,

10

4)



4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-
pyrazol-1-yl]-benzenesulfonamide,